

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/038382 A1

(51) International Patent Classification⁷: **F28F 9/16,**
B23K 1/00, B21D 53/04

(21) International Application Number:
PCT/SE2004/001322

(22) International Filing Date:
20 September 2004 (20.09.2004)

(25) Filing Language: Swedish

(26) Publication Language: English

(30) Priority Data:
0302748-9 17 October 2003 (17.10.2003) SE

(71) Applicant (for all designated States except US): **ALFA
LAVAL CORPORATE AB** [SE/SE]; P.O. Box 73, S-221
00 Lund (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SJÖDIN, Per**

[SE/SE]; Östra Vallgatan 37 A, S-223 61 Lund (SE).
DAHLBERG, Per-Olof [SE/SE]; Arkeologvägen 13,
S-226 54 Lund (SE).

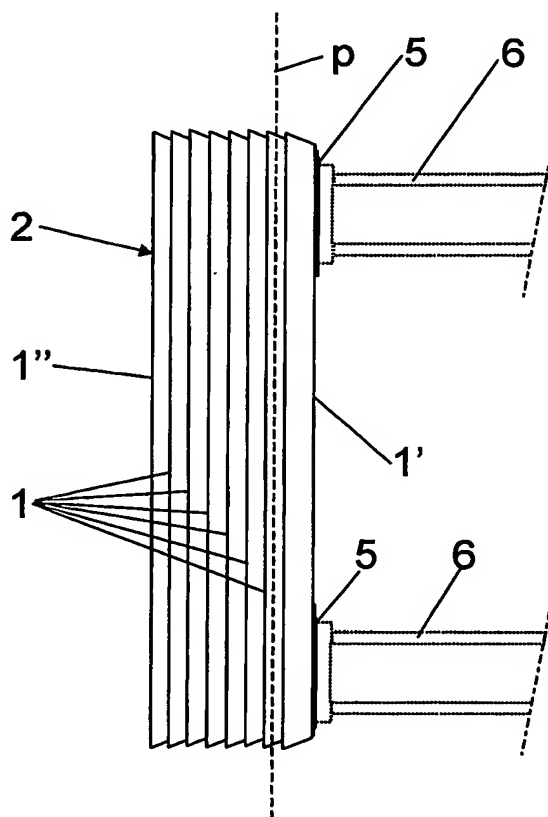
(74) Agents: **BJERKÉNS PATENTBYRÅ KB** et al.; Öster-
malmsg. 58, S-114 50 Stockholm (SE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: A PLATE HEAT EXCHANGER



(57) Abstract: The invention relates to a plate heat exchanger and a method of manufacturing a plate heat exchanger. The plate heat exchanger includes a number of heat exchanger plates (1, 1', 1'') which are provided beside each other and connected to each other by means of a braze connection. The heat exchanger plates are substantially manufactured in stainless steel containing chromium. The plate heat exchanger includes a number of port channels extending through at least some of the heat exchanger plates. Each port channel is surrounding by a connection surface (5) for connection of the port channel to a pipe member (6). The connection surface includes a material permitting brazing of the pipe member to the connection surface in a more easy manner than stainless steel.

WO 2005/038382 A1



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*